

## CLAIMS

What is claimed is:

1. A material management method, for being applied to a material management system including material database servers, a network management server and terminal devices for proceeding a real-time material management of receiving materials; the method comprising the steps of:
  - (1) transmitting material-receiving data via a user at one of the terminal devices in a material-receiving form to the network management server through a network; and
  - (2) receiving and integrating the material-receiving forms via the network management server from the terminal devices, so as to initiate and establish connection with one of the material database servers that provides material-receiving data service according to types of the material-receiving data, wherein the material-receiving data are inputted to the material database server and stored in a material database of the material database server in an order of material-receiving dates.
2. The material management method of claim 1, wherein the step (2) further comprises the steps of:
  - (2-1) classifying the received material-receiving data via the material database server into categories according to vendor's names and codes, and further classifying the material-receiving data of a same vendor's name and code into sub-categories according to material codes and types; and
  - (2-2) writing the classified material-receiving data into the material database via the material database server by using a function of recording a current material-receiving condition of a vendor, and updating a most recent material-receiving file of the vendor in the material database, wherein an

operation mode and cycle time for updating the file are set according to practical conditions.

3. The material management method of claim 1, further comprising a step of:

- (3) transmitting the material-receiving data via the material database server from the material database to the network management server and to the terminal device via a network, so as to conduct two-way communication with the user at the terminal device, allowing the user to immediately realize a material-receiving status.

4. The material management method of claim 1, further comprising the steps of:

- (3) transmitting material-issuing data via the user at the terminal device according to a material-issuing status in a material-issuing form to the network management server through Internet or intranet; and
- (4) receiving and integrating the material-issuing forms from the terminal devices via the network management server, so as to initiate and establish connection with one of the material database servers that provides material-issuing data service according to types of the material-issuing data, for inputting the material-issuing data to the material database server; receiving the material-issuing data via the material database server, and inspecting material data in a material database thereof to issue materials in an order of material-receiving dates, so that a material with an earlier material-receiving date is prior to be issued, and a first-in-first-out mode of material management is proceeded in receiving and issuing materials.

5. The material management method of claim 4, wherein the first-in-first-out mode of material management in issuing materials comprises the steps of:

- (1) receiving the material-issuing data via the material database server, and automatically initiating a function of inspecting material stocks, so as to

provide a stock list of available vendors; and

- (2) automatically initiating a first-in-first-out function for issuing materials in an order of material-receiving dates via the material database server according to the stock list of the vendors, in a manner that a material with an earlier material-receiving date is prior to be issued.
6. The material management method of claim 1, wherein each of the material database servers includes a material database, the network management server has a material management module that includes a material management program and a material management homepage, and each of the terminal devices includes a browser.
7. The material management method of claim 6, wherein the material management module displays the material management homepage in the browser of the terminal device for allowing the user at the terminal device to provide and transmit the material-receiving data to the material management module of the network management server via the browser of the terminal device; after receiving and integrating the material-receiving data from the terminal device, the material management module executes the material management program, so as to conduct a material-receiving operation and to access material data of the material database of the material database server via the material management module; the material management module receives the material-receiving data from the material database of the material database server, and the material management homepage of the material management module transmits the received data to the browser of the terminal device via a network.
8. A material management method, for being applied to a material management system including material database servers, a network management server and terminal devices for proceeding a real-time material management of issuing

materials; the method comprising the steps of:

- (1) transmitting material-issuing data via a user at one of the terminal devices in a material-issuing form according to a material-issuing status to the network management server through Internet or intranet; and
  - (2) receiving and integrating the material-issuing forms from the terminal devices via the network management server, so as to initiate and establish connection with one of the material database servers that provides material-issuing data service according to types of the material-issuing data, for inputting the material-issuing data to the material database server; receiving the material-issuing data via the material database server, and inspecting material data in a material database thereof to issue materials in an order of material-receiving dates, so that a material with an earlier material-receiving date is prior to be issued, and a first-in-first-out mode of material management is proceeded in receiving and issuing materials.
9. The material management method of claim 8, wherein the step (2) further comprises the steps of:
- (2-1) receiving the material-issuing data via the material database server, and automatically initiating a function of inspecting material stocks, so as to provide a stock list of available vendors; and
  - (2-2) automatically initiating a first-in-first-out function for issuing materials in an order of material-receiving dates via the material database server according to the stock list of the vendors, in a manner that a material with an earlier material-receiving date is prior to be issued, and the first-in-first-out mode of material management is proceeded in receiving and issuing materials.
10. The material management method of claim 8, further comprising a step of:

- (3) transmitting the material-issuing data via the material database server from the material database to the network management server and to the terminal device via a network, so as to conduct two-way communication with the user at the terminal device or a user at the network management server, allowing the user to immediately realize a material-issuing status.
11. The material management method of claim 8, wherein each of the material database servers includes a material database, the network management server has a material management module that includes a material management program and a material management homepage, and each of the terminal devices includes a browser.
12. The material management method of claim 11, wherein the material management module displays the material management homepage in the browser of the terminal device for allowing the user at the terminal device to provide and transmit the material-issuing data to the material management module of the network management server via the browser of the terminal device; after receiving and integrating the material-issuing data from the terminal device, the material management module executes the material management program, so as to conduct a material-issuing operation and to access material data of the material database of the material database server via the material management module; the material management module receives the material-issuing data from the material database of the material database server, and the material management homepage of the material management module transmits the received data to the browser of the terminal device via a network.
13. A material management system for being applied to a real-time material management system, comprising:
- at least one terminal device for allowing a user at the terminal device to

transmit material-receiving data or material-issuing data to a network management server, wherein the terminal device has a browser for obtaining the material-receiving data or the material-issuing data from a material database of a material database server via the network management server;

the network management server for receiving the material-receiving data or the material-issuing data transmitted from the user at the terminal device; wherein after receiving and integrating the material-receiving data or the material-issuing data from the terminal device, the network management server accesses material data of the material database of the material database server; wherein the network management server receives the material-receiving data or the material-issuing data from the material database of the material database server, and transmits the received data to the terminal device via a network; and

the material database server having the material database required by the network management server.

14. The material management system of claim 13, wherein the network management server has a material management module that includes a material management program and a material management homepage; the material management module displays the material management homepage in the browser of the terminal device for allowing the user at the terminal device to provide and transmit material-receiving data or material-issuing data to the material management module of the network management server via the browser of the terminal device; after receiving and integrating the material-receiving data or the material-issuing data from the terminal device, the material management module executes the material management program, so as to conduct a material-receiving operation or a material-issuing operation and to access material data of the material database of the material database server via the material management module; the material

management module receives the material-receiving data or the material-issuing data from the material database of the material database server, and the material management homepage of the material management module transmits the received data to the browser of the terminal device via a network.

15. The material management system of claim 13, wherein the material database of the material database server is a type of MS Access.
16. The material management system of claim 13, wherein the material database of the material database server is a type of MS SQL.
17. The material management system of claim 13, wherein the material database of the material database server is a type of ORACLE.